

# From the INTERNATIONAL BUREAU

### **PCT**

### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

Τo

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
02 May 2001 (02.05.01)

International application No.
PCT/GB00/03231

International filing date (day/month/year)
21 August 2000 (21.08.00)

Applicant
AL-OBAIDY, Bahir et al

	<del></del>
1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	22 January 2001 (22.01.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	·
I	
1	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Olivia TEFY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

# **PCT**

# REQUEST

· · · Office use only
For receiving Office use only
International Application No.
International Filing Date
International Finns
Name of receiving Office and "PCT International Application"
Name of receiving Office and 7 or the

REQUEST	International Filing Date	
The undersigned requests that the present	Office an	d "PCT International Application"
international application be processed according to the Patent Cooperation Treaty.		
decorang	Applicant's or agent's file re (if desired) (12 characters maxi	mum) P1398
Box No. I TITLE OF INVENTION		
REMOTELY INTERACTIVE MET	ERING SYSTEM	
Box No. II APPLICANT	G.II official	
Name and address: (Family name followed by given name: for designation. The address must include postal code and name of address indicated in this Box is the applicant's State (that is, coun of residence is indicated below.)	a legal entity. Juli official country. The country of the htty) of residence if no State	This person is also inventor.
Of restaurite to		Telephone No.
Digiterm Limited 12 Millison Grove Solihull		Facsimile No.
West Midlands B90 4UN GB		Teleprinter No.
S-oxionality:	State (that is, country) of	residence:
State (that is. country) of nationality:  GB		e United States the States indicated in the Symplemental Box
This person is applicant all designated X the Unit	tnated States except the of States of America	e United States America only the Supplemental Box
for the purposes of:	JRTHER) INVENTOR(S)	
Name and address: (Family name followed by given name: followed by given name: followed given name: followed by given name: followed gi	or a legal entity, full official f country. The country of the untry) of residence if no State	This person is:  applicant only
AL-OBAIDY Bahir		y applicant and inventor
11 Warlingham Road East Dulwich		inventor only (If this check-box is marked, do not fill in below.)
London SE22 9HD		
GB	State (that is, country)	of residence:
State (that is. country) of nationality:		the United States the States indicated in the Supplemental Box
This person is applicant all designated all de the U	nited States of America	of America only the Supplemental Box
inventors are indi	cated on a continuation sheet.	TERONIDENCE
Box No. IV AGENT OR COMMON REPRESENTA	ATIVE; OR ADDRESS FOR	CORRESPONDENCE
The person identified below is hereby/has been appointed	to act on behalf X	agent common representative
Name and address: (Family name followed by given name designation. The address must include p	e: for a legal entity, full office postal code and name of country	+44 121 708 0080
WATTS Peter Granam		Facsimile No.
Anthony Cundy & Co. 1 Olton Bridge		+44 121 708 2383
245 Warwick Road Solihull B92 9AH		Teleprinter No.
GB		enresentative is/has been appointed and the
Address for correspondence: Mark this check-bose space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used instead to indicate a special address to the space above is used in the space above in the space above is used in the space above in the sp	X where no agent or common red dress to which correspondence	should be sent.  See Notes to the request for
Form PCT/RO/101 (first sheet) (July 1998; reprint Januar	y 2000)	



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 00/03231	21/08/2000	24/08/1999
Applicant		
DIGITERM LIMITED		
This International Search Report has bee according to Article 18. A copy is being to	on prepared by this International Searching Autransmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of sheets.  via copy of each prior art document cited in this	report.
Basis of the report		
	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of the	ne international application furnished to this
b. With regard to any <b>nucleotide ar</b> was carried out on the basis of th		ternational application, the international search
	onal application in written form.	
	ernational application in computer readable form	n.
	o this Authority in written form.	
	o this Authority in computer readble form. bsequently furnished written sequence listing d	oes not go beyond the disclosure in the
I — · · · · · · · · · · · · · · · · · ·	as filed has been furnished.	s identical to the written sequence listing has been
furnished	official of recorded in computer readable form is	s identical to the written sequence usung has been
2. Certain claims were fou	ınd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
the text is approved as s	ubmitted by the applicant.	
X the text has been establi	shed by this Authority to read as follows:	
INTERACTIVE SYSTEM FO	R REMOTE READING OF UTILITY	METERS
5. With regard to the abstract,		
[ <del>V</del> ]	ubmitted by the applicant.	
the text has been establi	shed, according to Rule 38.2(b), by this Authori e date of mailing of this international search rep	
6. The figure of the <b>drawings</b> to be put	olished with the abstract is Figure No.	1
X as suggested by the app	licant.	None of the figures.
because the applicant fa	iled to suggest a figure.	
because this figure bette	r characterizes the invention.	

Interna Application No PCT/GB 00/03231

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G08C17/02

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

 $\begin{array}{ll} \text{Minimum documentation searched (classification system tollowed by classification symbols)} \\ IPC 7 & G08C \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

### EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 892 758 A (ARGYROUDIS PANAYOTIS) 6 April 1999 (1999-04-06)	1-6,9, 11,13, 16-18, 23,26, 29-32
	column 4, line 35 -column 6, line 40 column 9, line 1 - line 24 column 10, line 21 -column 11, line 9 column 16, line 11 -column 17, line 38	·
X	EP 0 629 098 A (LOGICA UK LTD) 14 December 1994 (1994-12-14)	1-3,6,9, 13-17, 23, 26-28, 30-32
	column 3, line 35 -column 4, line 32 column 5, line 8 -column 6, line 33 column 7, line 44 -column 10, line 18	
	-/	

Yullier documents are issed in the community of box o.	A Tabilitatily illustrated at the case of		
<ul> <li>Special categories of cited documents:</li> <li>A document defining the general state of the art which is not</li> </ul>	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the		
considered to be of particular relevance  *E* eartier document but published on or after the international filing date	invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to		
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another	involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention		
citation or other special reason (as specified)  *O* document referring to an oral disclosure, use, exhibition or other means	cannot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled		
*P* document published prior to the international filing date but later than the priority date claimed	in the art.  *8* document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
18 December 2000	27/12/2000		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040. Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Pham, P		

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Intern Application No
PCT/GB 00/03231

		PC1/GB 00/03231
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Delevent to stein Me
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 897 607 A (SZYDLOWSKI LAWRENCE G ET AL) 27 April 1999 (1999-04-27)  column 2, line 49 - line 60	1,2,4,6, 9,13-16, 19,20, 28,30-32
	column 3, line 62 -column 5, line 6 column 6, line 49 -column 7, line 25 column 8, line 47 -column 9, line 3 column 12, line 5 -column 13, line 3	
X	EP 0 329 901 A (GEN ELECTRIC) 30 August 1989 (1989-08-30)	1,2,4,6, 9,13,16, 17,20, 22,28, 30-32
	column 7, line 22 -column 8, line 58 column 10, line 1 -column 11, line 14	30 32
X	US 5 883 886 A (EATON ERIC THOMAS ET AL) 16 March 1999 (1999-03-16)	1-4,6, 13,23, 26,31,32
	column 1, line 65 -column 4, line 5	20,31,32

2

Information on patent family members

Intern. Application No
PCT/GB 00/03231

Patent document cited in search report			Publication date		itent family nember(s)	Publication date	
US 5	892758	Α	06-04-1999	US	5748104 A	05-05-1998	
EP 0	629098	Α	14-12-1994	GB DE ES	2278699 A 629098 T 2088837 T	07-12-1994 12-09-1996 01-10-1996	
US 5	897607	Α	27-04-1999	NONE			
EP 0	329901	Α	30-08-1989	US BR JP US	4862493 A 8806987 A 2003816 A 5079715 A	29-08-1989 05-09-1989 09-01-1990 07-01-1992	
US 5	883886	Α	16-03-1999	NONE			



From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

<u>:</u>.

To:

WATTS, P.G. ANTHONY CUNDY & CO 1 Olton Bridge 245 Warwick Road Solihull B92 9AH GRANDE BRETAGNE RECEIVED

29 OCT 2001

ANTHONY CUMPY & Co.

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

26.10.2001

Applicant's or agent's file reference

P1398

International filing date (day/month/year)

21/08/2000

Priority date (day/month/year)

24/08/1999

Applicant

DIGITERM LIMITED et al

International application No.

PCT/GB00/03231

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer

Röhner, M

Tel.+49 89 2399-2294





# From the INTERNATIONAL BUREAU

**PCT** 

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

WATTS, Peter, Graham Anthony Cundy & Co. 1 Olton Bridge 245 Warwick Road Solihull B92 9AH ROYAUME-UNI

5 11 2001 - \$ 112 2001

Date of mailing (day/month/year) 01 March 2001 (01.03.01)

Applicant's or agent's file reference

P1398

IMPORTANT NOTICE

International application No. PCT/GB00/03231

International filing date (day/month/year) 21 August 2000 (21.08.00)

24 Δ

Priority date (day/month/year)

24 August 1999 (24.08.99)

**Applicant** 

**DIGITERM LIMITED et al** 

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AU,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1 (a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 01 March 2001 (01.03.01) under No. WO 01/15114

#### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

#### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

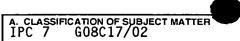
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35





According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7-608C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

### EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 5 892 758 A (ARGYROUDIS PANAYOTIS) 6 April 1999 (1999-04-06)	1-6,9, 11,13, 16-18, 23,26, 29-32
	column 4, line 35 -column 6, line 40 column 9, line 1 - line 24 column 10, line 21 -column 11, line 9 column 16, line 11 -column 17, line 38	
X	EP 0 629 098 A (LOGICA UK LTD) 14 December 1994 (1994-12-14)	1-3,6,9, 13-17, 23, 26-28, 30-32
	column 3, line 35 -column 4, line 32 column 5, line 8 -column 6, line 33 column 7, line 44 -column 10, line 18	30 32
	_/	

χ Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>'A' document defining the general state of the art which is not considered to be of particular relevance</li> <li>'E' earlier document but published on or after the international filing date</li> <li>'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>'O' document referring to an oral disclosure, use, exhibition or other means</li> <li>'P' document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
18 December 2000	. 27/12/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Pham, P

International Application No PC 00/03231

<u> </u>		00/03231
C.(Continua Category °	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 897 607 A (SZYDLOWSKI LAWRENCE G ET AL) 27 April 1999 (1999-04-27)	1,2,4,6, 9,13-16, 19,20, 28,30-32
	column 2, line 49 - line 60 column 3, line 62 -column 5, line 6 column 6, line 49 -column 7, line 25 column 8, line 47 -column 9, line 3 column 12, line 5 -column 13, line 3	
	EP 0 329 901 A (GEN ELECTRIC) 30 August 1989 (1989-08-30)	1,2,4,6, 9,13,16, 17,20, 22,28, 30-32
	column 7, line 22 -column 8, line 58 column 10, line 1 -column 11, line 14	33 32
(	US 5 883 886 A (EATON ERIC THOMAS ET AL) 16 March 1999 (1999-03-16)	1-4,6, 13,23, 26,31,32
	column 1, line 65 -column 4, line 5	20,31,32
	·	

Information patent family members

		intorn	nation on patent family me	mbers		PCT PCT	00/03231
	document earch report	·	Publication date		ent family ember(s)	Publication date	
US 589	92758	Α	06-04-1999	US	574810	04 A	05-05-1998
EP 06	29098	Α	14-12-1994	GB DE ES	227869 62909 208883	98 T	07-12-1994 12-09-1996 01-10-1996
US 589	97607	Α	27-04-1999	NONE			
EP 03	29901	A	30-08-1989	US BR JP US	486249 880698 200383 507973	B7 A 16 A	29-08-1989 05-09-1989 09-01-1990 07-01-1992
US 58	 83886	 А	16-03-1999	NONE			· • • • • • • • • • • • • • • • • • • •

International Application No



# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicable as appeals file asks	2000			
Applicant's or agent's file refer	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
P1398				
International application No.	International filing date (day/mo			
PCT/GB00/03231	21/08/2000	24/08/1999		
International Patent Classification (IPC) or national classification and IPC G08C17/02				
Applicant				
DIGITERM LIMITED et	al			
		1 Dell' Dell		
This international prefit     and is transmitted to the	minary examination report has been prepa ne applicant according to Article 36.	red by this International Preliminary Examining Authority		
and is transmitted to t	to approant according to miles co.			
o This DEBODE same	e of a total of 6 chapte including this cave	r sheet		
2. This REPORT consist	s of a total of 6 sheets, including this cove	. 6.100%		
☐ This report is also	accompanied by ANNEXES, i.e. sheets o	f the description, claims and/or drawings which have		
been amended ar	nd are the basis for this report and/or sheet	s containing rectifications made before this Authority		
(see Rule 70.16 a	nd Section 607 of the Administrative Instru	ctions under the PC1).		
These annexes consi	st of a total of sheets.			
3. This report contains in	dications relating to the following items:			
I M Pasis of	no raport			
I ⊠ Basis of t	ne report			
	plishment of opinion with regard to novelty.	inventive step and industrial applicability		
	nity of invention	pinion with regard to novelty, inventive step and industrial applicability		
		to novelty, inventive step or industrial applicability;		
citations	and explanations suporting such statement			
	locuments cited			
1	efects in the international application			
VIII   Certain o	bservations on the international application			
Date of submission of the demand  Date of completion of this report				
22/01/2001	26.1	0.2001		
Name and mailing address of preliminary examining author	the international Autr	norized officer		
European Patent Office				
D-80298 Munich	gner, U			
Fax: +49 89 239	9 - 0 Tx: 523656 epmu d 9 - 4465 Tele	phone No. +49 89 2399 8171		

Telephone No. +49 89 2399 8171

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/03231

				• • •
i.	Basi	s of the report		
1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:				girially illed
	1-9		as originally filed	
	Clair	ns, No.:		
	1-32		as originally filed	
Drawings, sheets:				
	1/2-2	2/2	as originally filed	
2.	With lang	regard to the <b>lan</b> uage in which the	nguage, all the elements marked above were available or furnished to this Au e international application was filed, unless otherwise indicated under this iten	thority in the n.
These elements were available or furnished to this Authority in the following language: , which is:			:	
		the language of a	a translation furnished for the purposes of the international search (under Rul	e 23.1(b)).
			publication of the international application (under Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3)	a translation furnished for the purposes of international preliminary examinati	on (under Rule
3	. With inte	n regard to any <b>n</b> u rnational prelimina	ucleotide and/or amino acid sequence disclosed in the international applica ary examination was carried out on the basis of the sequence listing:	ition, the
		contained in the	international application in written form.	
		filed together with	th the international application in computer readable form.	
	furnished subsequently to this Authority in written form.			
		furnished subsec	quently to this Authority in computer readable form.	
		The statement the	hat the subsequently furnished written sequence listing does not go beyond t I application as filed has been furnished.	
		The statement the listing has been	hat the information recorded in computer readable form is identical to the writ furnished.	ten sequence

☐ the description,

☐ the claims,

4. The amendments have resulted in the cancellation of:

pages:

Nos.:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/03231

		the drawings,	sheets:		
5.			n established as if (some of) the amendments had not been made, since they have yond the disclosure as filed (Rule 70.2(c)):	been	
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to	this	
6.	Add	litional observations, i	if necessary:		
III.	Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability		
1.			ne claimed invention appears to be novel, to involve an inventive step (to be non- rially applicable have not been examined in respect of: nal application.		
	Ø	claims Nos. 32.			
because:					
			al application, or the said claims Nos. relate to the following subject matter which do ational preliminary examination ( <i>specify</i> ):	es	
	⊠		ms or drawings ( <i>indicate particular elements below</i> ) or said claims Nos. 32 are so uppinion could be formed ( <i>specify</i> ):	nclea	
		the claims, or said cl could be formed.	laims Nos. are so inadequately supported by the description that no meaningful op	inion	
		no international sear	rch report has been established for the said claims Nos		
2.	and	neaningful internationa Vor amino acid seque ructions:	al preliminary examination cannot be carried out due to the failure of the nucleotide ence listing to comply with the standard provided for in Annex C of the Administrative	е	
			not been furnished or does not comply with the standard.		
		the computer readal	ble form has not been furnished or does not comply with the standard.		
IV	. Lac	ck of unity of inventi	ion		
1.	In r	esponse to the invitat	tion to restrict or pay additional fees the applicant has:		
		restricted the claims	5.		

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/03231

		paid additional fees.				
		paid additional fees under protest.				
		neither restricted nor paid additional fees.				
2.	×	This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.				
3.	This	his Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is				
		complied with.				
	×	not complied with for the following reasons:  see separate sheet				
4.		consequently, the following parts of the international application were the subject of international preliminary xamination in establishing this report:				
	Ø	all parts.				
		the parts relating to clair	ns Nos.	•		
٧.	Rea cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;				
1.	Sta	tement				
	Nov	velty (N)	Yes: No:	Claims Claims	1-3,6,9,13-17,23,26-28,30-31	
	Inve	entive step (IS)	Yes: No:	Claims Claims	4,5,7,8,10-12,18-22,24,25,29	
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-31	

# 2. Citations and explanations see separate sheet

# VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

D1: EP-A-0 629 098 (LOGICA UK LTD) 14 December 1994 (1994-12-14)

## Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 32 include a general reference to the drawings. Its scope of protection is therefore absolutely unclear (Art. 6 PCT). No meaningful statement under Art. 33 PCT can be made for it.

## Re Item IV

## Lack of unity of invention

Claim 1 is fully anticipated by D1, see figures 1 and 2, column 3, line 35 - column 4, line 32 and in particular column 9, lines 27-52. Claim 1 is therefore not new. Then, however, claims 2,3,4-11,13,16,18-23,25,27,29,30 and 31, being directly dependent on claim 1, form a group of inventions not linked by a common inventive concept, as required by Art. 13.1 PCT

### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Claim 1 is fully anticipated by D1, see figures 1 and 2, column 3, line 35 column 4, 1. line 32 and in particular column 9, lines 27-52. Claim 1 is therefore not new. Art. 33(1) PCT is not meet.
- The subject-matter of dependent claims 2,3,6,9,13-17,23,26-28 and 30-32 is also 2. anticipated by D1, see also column 5, line 8 - column 6, line 33 and column 7, line 44 - column 9, line 26. These claims therefore fail to meet Art. 33(1) PCT.
- Claims 24 and 25 specify the time signals that the meter reading collection hubs 3. receives. As far as they can be understood, they are time signals broadcast for public use in the United Kingdom. In D1, the time signal received by the meter

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**EXAMINATION REPORT - SEPARATE SHEET** 

reading collection hub is transmitted by the centralised meter reading server. It is considered as being an obvious alternative to the prior art solution to replace the server master clock with an available public time signal as the ones claimed in claims 24 and 25. A skilled person would therefore arrive at claims 24 and 25 from D1 without having performed an inventive step. Hence, claims 24 and 25 do not meet Art. 33(1) PCT.

The remaining dependent claims contain merely design alternatives for the metering 4. system known from D1. They cannot justify an inventive step as required by Art. 33(1) PCT.

### Re Item VII

# Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

### Re Item VIII

# Certain observations on the international application

Claims 24 and 25 claim the names of real-time time signals that are believed to not be part of the general technical terminology in the art of metering systems. Claims 24 and 25 are therefore considered to be unclear in the definitions of Art. 6 PCT.

# (19) World Intellectual Property Organization International Bureau



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# (43) International Publication Date 1 March 2001 (01.03.2001) P

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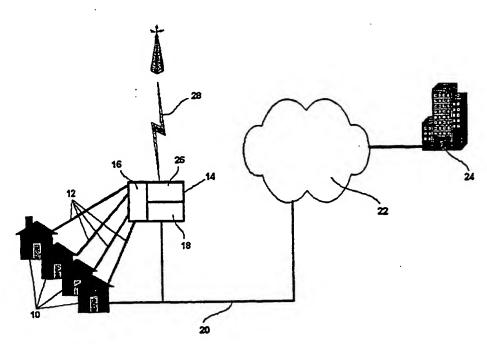
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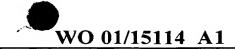
[Continued on next page]

(54) Title: INTERACTIVE SYSTEM FOR REMOTE READING OF UTILITY METERS



(57) Abstract: A remotely interactive metering system comprises a plurality of meter reading collection hubs (14) connected via a telecommunications network to a centralised meter reading server (24), each meter reading collection hub (14) being connected to a plurality of sensing means for interfacing with a meter and providing an output signal corresponding to the meter reading, the meter reading collection hub including communication means (26) for receiving real-time time signals (28) which are used to synchronise transmission of data from the meter reading collection hub (14) to the centralised meter reading server (24).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.